

## **EXHIBIT 3**



LANDFILL TECHNOLOGIES OF ARECIBO, LLC

April 1<sup>st</sup>, 2019

Eng. Luis R. Sierra Torres  
Inspection and Compliance Division  
Air Quality Area  
Puerto Rico Environmental Quality Board  
PO Box 11488  
Santurce, Puerto Rico 00910

**RE: MONITORING MONTHLY GAS EXTRACTION WELLS  
ARECIBO MUNICIPAL SOLID WASTE LANDFILL**

Dear Mr. Sierra:

Landfill Technologies of Arecibo, LLC. is respectfully submitting for your review the reports of the monitoring monthly of the gas extraction wells of the Gas Collection and Control System for the Arecibo Municipal Solid Waste Landfill, corresponding to the months January to December 2018.

If you need additional information, please contact us to our office at (787) 273-7639 or by email, [cotero@landfillpr.com](mailto:cotero@landfillpr.com).

Cordially,

Eng. Cynthia B. Otero Cordova  
Project Engineer

# Data Collected Arecibo GCCS January 2018

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Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
AFLR0001	45.8	35.5	1.6	17.1	0	96	22
ARWG0001	57.5	41.8	0.5	0.2	-1.1	105	13
ARWG0002	56.9	42.7	0.3	0.1	-0.2	112	12
ARWG0003	56.7	42.6	0.5	0.2	-0.8	111	9
ARWG0004	56.9	43.1	0	0	-0.2	112	7.2
ARWG0005	55.9	42.8	1.2	0.1	-0.6	120	6
ARWG0006	54.9	44.8	0.1	0.2	-0.1	117	10
ARWG0007	55.8	43.8	0.3	0.1	0	111	9
ARWG0008	58.9	40.7	0.3	0.1	-0.2	83	8
ARWG0009	26.8	14.1	11.4	47.7	-0.1	87	0
ARWG0010	56.7	42.7	0.4	0.2	-0.1	87	7
ARWG0011	73.7	25.9	0.2	0.2	-0.3	89	4
ARWG0012	57.7	42	0.2	0.1	-0.1	88	9
ARWG0013	64.6	35	0.2	0.2	-0.1	89	8
ARWG0014	58.9	31	0.2	9.9	-0.1	90	6
ARWG0015	59.7	40	0.2	0.1	-0.1	88	7
ARWG0016	61.2	38.5	0.2	0.1	-0.1	94	8
ARWG0017	61.2	38.4	0.2	0.2	-0.1	92	7
ARWG0018	68.6	31	0.2	0.2	-0.1	98	7
ARWG0019	56.2	43.4	0.2	0.2	0	95	9
ARWG0020	71.7	28	0.2	0.1	-0.1	97	10
ARWG0021	58.6	41	0.3	0.1	-0.1	94	11
ARWG0022	56.9	42.7	0.2	0.2	0	94	5
ARWG0023	62	37.6	0.2	0.2	0	99	10
ARWG0024	61	38.6	0.2	0.2	-0.1	99	9
ARWG0025	60.2	39.3	0.2	0.3	-0.3	103	9
ARWG0026	56.7	40.1	0.8	2.4	-0.2	102	7
ARWG0027	53.6	38.6	0.2	7.6	-0.2	95	11
ARWG0028	56.3	37.5	0.3	5.9	-0.2	90	4
ARWG0029	60.2	38.9	0.4	0.5	-0.2	90	8
ARWG0030	61.8	34.6	0.6	3	-0.2	90	6
ARWG0031	62.4	37.2	0.2	0.2	-0.1	92	4
ARWG0032	67.4	32.3	0.2	0.1	0	96	9
ARWG0033	70.1	29.1	0.2	0.6	-0.1	93	3
ARWG0034	71.1	28.5	0.2	0.2	-0.1	94	4
ARWG0041	66.1	33.4	0.3	0.2	-0.1	103	2
ARWG0042	67.6	32	0.3	0.1	-0.1	101	2
ARWG0043	58.3	41.4	0.2	0.1	-0.1	112	6
ARWG0044	58.7	41	0.2	0.1	-0.1	107	7
ARWG0045	61.2	38.5	0.2	0.1	0	99	8
ARWG0065	57.4	42.4	0.2	0	-0.98	110.9	14.6

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ARWG0066	57.2	42.6	0.2	0	-2.07	115.2	<>>
ARWG0067	6.9	21.2	9.4	62.5	0	78	2
ARWG0068	56.9	42.6	0.4	0.1	-0.4	114	9
ARWG0068	11.7	34.7	1.7	51.9	-0.49	91.4	6.3
ARWG0069	56.8	43.1	0.1	0	-1.09	115	<>>
ARWG0070	56.2	42.9	0.6	0.3	-0.95	99.1	4.2
ARWG0071	54.9	44.3	0.5	0.3	-1.51	119.4	<>>
ARWG0072	55.7	44	0	0.3	-1.68	110.5	23.5
ARWG0073	58.7	41.3	0	0	-0.04	100.1	10.6
ARWG0074	58.4	41.6	0	0	-3.81	108.8	4.5
ARWG0075	55.8	44.1	0	0.1	-0.19	90.5	30.1
ARWG0076	58.8	41.1	0.1	0	-0.54	110.5	<>>
ARWG0077	58.1	41.9	0	0	-0.97	114.3	3
ARWG0078	56.8	43.2	0	0	-0.03	115.9	48.6
ARWG0079	55.4	44.6	0	0	-0.44	96.8	1.8
ARWG0080	57.2	41.1	0.1	1.6	-0.13	100.6	3.6
ARWG0081	57.9	42	0.1	0	-0.11	92.5	3.1
ARWG0082	56	43.2	0	0.8	-0.14	98.4	6.5
ARWG0083	57.6	41.5	0.1	0.8	-0.35	108.4	3.6
ARWG0084	57.5	42.1	0	0.4	-0.93	88.2	<>>
ARWG0085	57.9	42	0.1	0	-0.22	94.4	4

# Data Collected Arecibo GCCS February 2018

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Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
AFLR0001	58	39.5	0.4	2.1	49.5	106	<>>
ARWG0008	56.8	42.8	0.2	0.2	-0.1	86	10
ARWG0009	67.6	31.9	0.3	0.2	0	86	5
ARWG0010	56.9	42.7	0.2	0.2	-0.2	86	9
ARWG0011	74.9	24.8	0.2	0.1	-0.3	87	7
ARWG0012	56.9	42.8	0.2	0.1	-0.2	85	8
ARWG0013	56.8	42.8	0.2	0.2	-0.1	89	7
ARWG0014	52	33.8	0.2	14	-0.1	91	17
ARWG0015	52.8	34.3	0.3	12.6	-0.1	90	10
ARWG0016	48.1	30.9	0.2	20.8	0	93	2
ARWG0017	40.8	33.8	0.5	24.9	0	92	2
ARWG0018	67.3	32	0.5	0.2	-0.4	99	10
ARWG0019	27.9	33.1	0.3	38.7	0	97	2
ARWG0020	37.4	31.1	0.2	31.3	-0.3	99	16
ARWG0020	66.5	33.1	0.3	0.1	-0.1	91	13
ARWG0021	55	38.7	0.3	6	-0.1	91	12
ARWG0022	57.4	41.4	0.5	0.7	-0.1	87	9
ARWG0023	61.1	37.9	0.3	0.7	-0.1	96	9
ARWG0024	55	37.5	0.7	6.8	-0.1	94	8
ARWG0025	54	38	0.3	7.7	-0.5	101	8
ARWG0026	49.8	39	1.3	9.9	-0.2	94	8
ARWG0027	46.6	37.1	0.3	16	0	91	2
ARWG0028	62.4	36.8	0.6	0.2	-0.1	79	3
ARWG0029	61.8	37.5	0.6	0.1	-0.3	87	8
ARWG0030	65.2	34.4	0.3	0.1	-0.1	88	6
ARWG0031	62.5	37.1	0.3	0.1	-0.1	91	5
ARWG0032	63.6	36	0.2	0.2	-0.1	89	7
ARWG0033	60.6	31.7	0.4	7.3	-0.1	86	5
ARWG0034	64.5	28.6	1.8	5.1	-0.1	89	4
ARWG0041	55.9	43.6	0.3	0.2	0	94	5
ARWG0042	67.3	31.8	0.8	0.1	-0.2	91	6
ARWG0043	57.5	42.1	0.3	0.1	-0.3	104	10
ARWG0044	59.4	40.1	0.3	0.2	-0.3	102	5
ARWG0045	63.2	36.4	0.3	0.1	-0.4	105	9
ARWG0051	60.5	39.2	0.2	0.1	-0.9	115	22
ARWG0051	59.2	40.5	0.2	0.1	-0.3	107	3
ARWG0052	56.8	42.8	0.2	0.2	-0.6	113	9
ARWG0053	56.8	42.8	0.2	0.2	-0.4	117	12
ARWG0054	56.6	43	0.2	0.2	-0.6	122	6
ARWG0055	62.9	36.6	0.3	0.2	0	93	9
ARWG0056	58.6	41	0.3	0.1	-0.2	107	11

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ARWG0061	56.1	43.5	0.2	0.2	-0.4	102	19
ARWG0062	56.8	42.8	0.2	0.2	-1.6	118	28
ARWG0063	55.2	44.5	0.2	0.1	-0.9	115	10
ARWG0064	60.1	39.6	0.2	0.1	-1.7	90	9
ARWG0065	56.6	42.9	0.3	0.2	-0.5	107	14
ARWG0066	56.1	43.5	0.2	0.2	-0.9	114	12
ARWG0067	14.5	39.6	0.2	45.7	0	87	7
ARWG0068	56.1	43.5	0.2	0.2	-0.4	115	5
ARWG0069	56.3	43.1	0.4	0.2	-0.4	111	9
ARWG0072	55.3	44.3	0.3	0.1	-0.1	111	10
ARWG0073	58.3	40.8	0.7	0.2	-1.3	97	10
ARWG0074	58.2	40.9	0.7	0.2	-0.8	97	9
ARWG0075	55	44.6	0.2	0.2	-1.1	83	12
ARWG0076	57.6	42	0.2	0.2	-0.1	111	11
ARWG0077	57.5	41.9	0.4	0.2	-0.3	110	12
ARWG0079	55	44.7	0.2	0.1	-0.2	100	9
ARWG0080	57.9	41.7	0.2	0.2	-0.1	99	6
ARWG0081	57.6	41.8	0.5	0.1	-0.5	93	9
ARWG0082	56.4	42.9	0.5	0.2	-0.4	100	8
ARWG0083	58.5	41	0.3	0.2	-0.3	108	10
ARWG0084	56.8	42.8	0.2	0.2	-0.4	86	10
ARWG0085	57.3	42.3	0.3	0.1	-0.3	107	10

# Data Collected Arecibo GCCS March 2018

Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
AFLR0001	45.8	35.5	1.6	17.1	0	96	22
ARWG0006	67	32.6	0.3	0.1	-0.3	94	7
ARWG0007	56.1	43.4	0.3	0.2	-0.2	96	5
ARWG0008	56	43.6	0.3	0.1	-0.2	95	10
ARWG0009	67.4	32.2	0.2	0.2	-0.2	101	5
ARWG0010	56.1	43.5	0.2	0.2	-0.1	101	10
ARWG0011	73.1	26.5	0.2	0.2	-0.2	100	13
ARWG0012	56.6	43	0.2	0.2	-0.1	102	10
ARWG0013	59.9	39.7	0.3	0.1	-0.1	97	10
ARWG0014	27	29.4	0.4	43.2	-0.02	90	5
ARWG0015	35.6	31.2	0.5	32.7	-0.1	89	0
ARWG0016	26.2	30.8	0.4	42.6	-0.2	86	3
ARWG0017	25	33.1	0.4	41.5	-0.1	92	1
ARWG0018	62.2	34.4	0.5	2.9	-0.3	100	8
ARWG0019	58.4	40.6	0.3	0.7	-0.3	95	9
ARWG0020	63.1	31.2	0.2	5.5	-0.1	100	13
ARWG0021	23.3	29.7	0.2	46.8	-0.1	100	5
ARWG0022	50.7	39.5	0.3	9.5	-0.1	92	6
ARWG0023	44.9	34.3	0.3	20.5	-0.1	104	1
ARWG0024	25.9	31.2	0.3	42.6	-0.1	99	2
ARWG0025	31.9	32	0.2	35.9	-0.3	103	2
ARWG0026	54.6	40	0.8	4.6	-0.2	100	10
ARWG0027	53.6	37.6	0.2	8.6	-0.1	97	7
ARWG0028	62.4	37.2	0.2	0.2	-0.1	92	6
ARWG0029	59.3	40.1	0.5	0.1	-0.1	91	8
ARWG0030	63.2	36.1	0.5	0.2	-0.2	91	5
ARWG0031	61.1	38.4	0.3	0.2	0	93	6
ARWG0031	61.1	38.4	0.3	0.2	-0.1	93	5
ARWG0032	64.1	35.5	0.2	0.2	-0.1	91	6
ARWG0033	59.8	36.1	0.3	3.8	-0.1	88	8
ARWG0034	69.4	30.2	0.2	0.2	-0.1	94	6
ARWG0041	56	43.6	0.3	0.1	0	105	6
ARWG0042	68	31.3	0.5	0.2	-0.3	96	4
ARWG0043	57.3	42.4	0.2	0.1	-0.3	110	9
ARWG0044	60.7	38.9	0.2	0.2	-0.4	99	6
ARWG0045	62.8	35.3	0.4	1.5	-0.4	105	12
ARWG0051	56.5	43.1	0.2	0.2	-0.3	113	5
ARWG0052	54.1	43.4	0.2	2.3	-0.5	117	13
ARWG0053	55.9	43.8	0.2	0.1	-0.4	120	11
ARWG0054	55.9	43.8	0.1	0.2	-0.6	123	12
ARWG0055	62	37.4	0.4	0.2	-0.5	103	10

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ARWG0056	61.4	38	0.4	0.2	-0.3	101	9
ARWG0061	53.6	46.1	0.2	0.1	-0.2	113	5
ARWG0062	50.8	43.5	0.2	5.5	-0.8	119	12
ARWG0063	56.1	43.4	0.4	0.1	-0.6	107	11
ARWG0063	54.7	44.9	0.2	0.2	-0.5	119	9
ARWG0064	56.1	43.4	0.4	0.1	-0.1	116	12
ARWG0064	59.6	40	0.2	0.2	-1.6	96	4
ARWG0065	15.9	40.2	0.2	43.7	-1.5	95	3
ARWG0066	55.9	43.7	0.3	0.1	-0.1	116	14
ARWG0066	55.9	43.7	0.3	0.1	-0.3	116	14
ARWG0067	56.3	43	0.6	0.1	-0.7	112	11
ARWG0072	55.6	43.4	0.8	0.2	-0.6	110	11
ARWG0073	58	41	0.8	0.2	-1.5	100	11
ARWG0074	56.1	39.3	1.6	3	-0.8	104	7
ARWG0075	55.5	43.6	0.8	0.1	-0.8	91	12
ARWG0076	57.3	42.3	0.3	0.1	-0.3	113	11
ARWG0077	57.3	42.1	0.5	0.1	-0.8	111	10
ARWG0079	54.9	43.1	0.6	1.4	-0.6	105	10
ARWG0080	58.2	41.4	0.3	0.1	-0.2	104	6
ARWG0081	57.8	41.3	0.7	0.2	-0.7	97	8
ARWG0082	56.7	42.6	0.6	0.1	-0.4	104	8
ARWG0083	59.3	40.2	0.4	0.1	-0.4	109	12
ARWG0084	56.9	42.7	0.2	0.2	-0.5	98	9
ARWG0085	57.5	42	0.4	0.1	-0.5	109	9

# Data Collected Arecibo GCCS April 2018

Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
AFLR0001	59.7	39.6	0.6	0.1	-0.1	104	23
ARWG0005	61.7	37.9	0.3	0.1	-0.3	95	5
ARWG0006	66.5	32.3	1	0.2	-0.1	94	6
ARWG0007	62.3	37.3	0.3	0.1	-0.1	91	9
ARWG0008	56.8	42.8	0.2	0.2	-0.1	89	9
ARWG0009	67.5	32.1	0.2	0.2	-0.1	91	8
ARWG0010	56.7	42.7	0.4	0.2	-0.1	90	6
ARWG0011	71.8	27.9	0.2	0.1	-0.1	92	2
ARWG0012	59.9	36.1	0.2	3.8	-0.1	90	9
ARWG0013	41.2	25.4	1.4	32	-0.3	91	8
ARWG0014	50.9	35.8	0.3	13	-0.1	89	3
ARWG0015	58	39	0.5	2.5	-0.3	87	9
ARWG0016	31.7	23.5	3.8	41	-0.1	84	2
ARWG0017	38.4	27.5	0.3	33.8	-0.1	87	2
ARWG0018	67.9	31.6	0.4	0.1	-0.4	97	9
ARWG0019	52.1	39.7	0.2	8	-0.1	92	4
ARWG0020	66.8	32.9	0.2	0.1	-0.1	96	11
ARWG0021	67.5	32.2	0.2	0.1	-0.1	96	8
ARWG0022	52.8	39.5	0.4	7.3	-0.1	92	6
ARWG0023	67.2	31.8	0.2	0.8	-0.1	92	9
ARWG0024	45.6	27.8	1.9	24.7	-0.1	88	3
ARWG0025	59.7	37.9	0.3	2.1	-0.4	99	5
ARWG0026	55	39.3	1.4	4.3	-0.5	100	10
ARWG0027	56.1	38.8	0.2	4.9	-0.1	92	7
ARWG0028	63	36.3	0.5	0.2	-0.1	84	6
ARWG0029	68.5	30.8	0.6	0.1	-0.1	88	3
ARWG0030	62.7	36.8	0.3	0.2	-0.1	89	6
ARWG0031	62.3	37.4	0.2	0.1	-0.1	93	6
ARWG0032	61.2	34.9	0.2	3.7	-0.1	90	7
ARWG0033	61.4	33.8	0.2	4.6	-0.2	89	9
ARWG0034	68.6	31	0.2	0.2	-0.1	95	<>>
ARWG0034	68.6	31	0.2	0.2	-0.1	95	10
ARWG0035	61.1	38.3	0.5	0.1	-1.4	95	10
ARWG0036	62.9	36.2	0.8	0.1	-0.5	96	11
ARWG0037	19.8	13.3	13.5	53.4	-0.4	88	1
ARWG0038	62.7	36.4	0.7	0.2	-0.4	96	10
ARWG0039	64.2	34.5	0.8	0.5	-0.1	113	5
ARWG0040	55.5	43.9	0.4	0.2	-0.1	111	13
ARWG0041	62.9	36.7	0.3	0.1	-0.2	110	10
ARWG0042	63.8	35.8	0.3	0.1	-0.3	108	6
ARWG0043	57.7	41.7	0.4	0.2	-0.3	110	9

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ARWG0044	57.1	42.3	0.5	0.1	-0.3	103	11
ARWG0045	63.3	36.4	0.1	0.2	-0.5	93	5
ARWG0047	61.8	37.6	0.5	0.1	-0.1	99	11
ARWG0048	50.9	28.5	4.3	16.3	-0.2	102	26
ARWG0049	61.4	38	0.4	0.2	-0.2	106	8
ARWG0050	57.3	42.3	0.2	0.2	-0.2	116	8
ARWG0051	58.8	40.9	0.2	0.1	-0.2	113	4
ARWG0052	56	43.6	0.2	0.2	-0.2	117	13
ARWG0053	56.2	43.4	0.3	0.1	-0.2	117	12
ARWG0054	55.8	43.8	0.2	0.2	-0.1	124	16
ARWG0055	53.8	36.5	0.9	8.8	-1.5	101	8
ARWG0056	59.9	39.6	0.3	0.2	-0.5	102	10
ARWG0057	16.5	9.7	13.8	60	-0.1	89	3
ARWG0059	56.8	42.7	0.3	0.2	-0.1	96	10
ARWG0060	54.1	45.5	0.3	0.1	-0.2	121	<>>
ARWG0061	55.2	44.4	0.3	0.1	-0.1	113	4
ARWG0062	56.1	43.5	0.3	0.1	-0.2	119	15
ARWG0063	55	44.6	0.2	0.2	-0.1	123	12
ARWG0064	57.7	40.4	0.7	1.2	-4	108	11
ARWG0065	57.1	42.4	0.3	0.2	-5.9	104	11
ARWG0068	56.9	42.2	0.7	0.2	-1.8	114	15
ARWG0069	55.2	40.9	1.3	2.6	-3.8	108	13
ARWG0072	51.4	40.5	1.8	6.3	-1.4	106	8
ARWG0076	58.1	40.9	0.9	0.1	-4	108	14
ARWG0079	46.3	34.7	2.9	16.1	-0.9	108	4
ARWG0080	58.5	41.1	0.2	0.2	-0.9	104	9
ARWG0081	48	35.1	3.6	13.3	-0.7	96	8
ARWG0082	47.8	35.1	3.2	13.9	-0.7	106	11
ARWG0083	55.8	38.7	0.5	5	-0.9	110	12
ARWG0084	50.7	38.9	0.7	9.7	-3.3	106	10
ARWG0085	46.3	37.1	1.8	14.8	-0.7	106	7

# Data Collected Arecibo GCCS May 2018

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Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
AFLR0001	53.9	38.2	0.8	7.1	-0.1	110	<>>
ARWG0005	65.4	34.1	0.3	0.2	-0.2	89	4
ARWG0006	66.8	32.8	0.3	0.1	-0.1	92	9
ARWG0007	59.1	34.2	0.6	6.1	-0.2	91	6
ARWG0008	48.9	38.6	0.4	12.1	-0.1	86	6
ARWG0009	61.6	37.5	0.7	0.2	-0.2	87	6
ARWG0010	65.3	33.9	0.7	0.1	-0.5	90	9
ARWG0011	62.7	31.6	0.4	5.3	-0.2	93	6
ARWG0012	27.1	33.2	0.4	39.3	-0.1	89	5
ARWG0013	42.7	30.7	0.3	26.3	-0.1	92	4
ARWG0014	34.5	26.3	0.2	39	-0.1	90	0
ARWG0015	37.9	31.1	0.5	30.5	-0.1	90	3
ARWG0016	52.2	28.3	0.3	19.2	-0.1	88	3
ARWG0017	48.6	27.9	0.3	23.2	-0.1	92	3
ARWG0018	51.4	32.5	0.6	15.5	-0.2	99	6
ARWG0019	54.7	38.4	0.3	6.6	-0.1	98	4
ARWG0020	64.8	32.1	0.2	2.9	-0.1	100	11
ARWG0021	63.7	35.9	0.2	0.2	-0.1	99	10
ARWG0022	49.6	36.5	0.4	13.5	-0.1	97	5
ARWG0023	64	35.6	0.3	0.1	-0.1	100	10
ARWG0024	60	39.6	0.2	0.2	0	97	9
ARWG0025	58.1	41.5	0.2	0.2	-0.1	106	9
ARWG0026	50.5	38.7	1.1	9.7	-0.5	102	7
ARWG0027	22.4	27	2.5	48.1	-0.1	95	2
ARWG0028	47.5	32.4	0.8	19.3	-0.1	87	1
ARWG0030	64.5	35	0.4	0.1	-0.1	91	8
ARWG0031	64.9	34.7	0.3	0.1	-0.1	95	7
ARWG0032	57.3	34.3	0.2	8.2	-0.1	92	6
ARWG0033	49.2	29	0.2	21.6	-0.1	90	3
ARWG0034	68.4	31.2	0.2	0.2	-0.1	96	5
ARWG0035	61	38.6	0.3	0.1	-2.7	99	11
ARWG0036	64	35.3	0.5	0.2	-0.1	95	9
ARWG0037	59.5	40.2	0.2	0.1	-0.5	89	9
ARWG0038	65	34.5	0.3	0.2	-0.1	92	11
ARWG0039	63.8	35.8	0.3	0.1	-0.1	109	11
ARWG0040	58.5	41.1	0.3	0.1	-0.1	113	13
ARWG0041	64.3	35.3	0.3	0.1	-0.2	109	10
ARWG0042	64.5	35.1	0.3	0.1	-0.1	106	2
ARWG0043	60	39.4	0.5	0.1	-0.2	111	9
ARWG0044	58.7	40.8	0.4	0.1	-0.2	109	10
ARWG0045	63.5	36.1	0.2	0.2	-0.1	105	9

## Data Collected Arecibo GCCS May 2018

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ARWG0046	62	37.5	0.3	0.2	-3.1	95	9
ARWG0047	62	37.2	0.7	0.1	-0.3	95	11
ARWG0048	63.3	36.2	0.4	0.1	-0.3	93	9
ARWG0049	60.8	38.7	0.4	0.1	-0.4	96	9
ARWG0050	53.2	38.9	2.1	5.8	-0.2	109	9
ARWG0051	58.4	41.2	0.2	0.2	-0.3	113	2
ARWG0052	55.7	43.9	0.3	0.1	-0.2	115	13
ARWG0053	56.1	43.2	0.6	0.1	-0.5	114	12
ARWG0054	55.7	43.6	0.6	0.1	-0.3	120	15
ARWG0055	57.7	36.2	0.8	5.3	-0.6	102	12
ARWG0057	18.9	10.5	12.9	57.7	-0.2	87	1
ARWG0059	59.1	40.4	0.3	0.2	-0.4	92	12
ARWG0060	56.4	43.2	0.2	0.2	0	122	11
ARWG0061	55.9	43.8	0.2	0.1	-0.4	114	5
ARWG0062	56.5	43.1	0.2	0.2	0	119	16
ARWG0063	55.5	44	0.3	0.2	-0.4	119	11
ARWG0064	59.4	39.8	0.5	0.3	-4.4	107	9
ARWG0072	55.2	44.5	0.2	0.1	-1	110	12
ARWG0079	43.2	38.4	1.1	17.3	-0.5	104	10
ARWG0080	44.5	37.4	0.3	17.8	-0.8	106	4
ARWG0081	56.3	43.2	0.3	0.2	-0.5	95	8
ARWG0082	56.7	42.9	0.3	0.1	-0.1	96	9
ARWG0083	62.2	37.4	0.3	0.1	-0.1	96	4
ARWG0085	56.8	42.7	0.3	0.2	-0.3	105	10

# Data Collected Arecibo GCCS June 2018

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Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas Temp. DegF	Flow SCFM
AFLR0001	54.3	37.4	0.5	7.8	0	108	31
ARWG0005	66.4	33.2	0.2	0.2	-0.2	93	4
ARWG0006	63.6	31.4	0.4	4.6	-0.2	95	9
ARWG0007	44.3	29.8	0.5	25.4	-0.1	95	2
ARWG0008	28.3	27.7	0.2	43.8	0	97	3
ARWG0009	32.6	29.4	0.6	37.4	-0.1	91	3
ARWG0010	58.6	26.7	0.4	14.3	-0.1	94	2
ARWG0011	40.8	25	0.6	33.6	0	95	2
ARWG0012	22.6	27.4	0.3	49.7	0	91	0
ARWG0013	75.8	23.8	0.2	0.2	-0.1	94	16
ARWG0014	58.5	27	0.3	14.2	-0.1	94	6
ARWG0015	66.6	31.8	0.3	1.3	-0.1	92	7
ARWG0016	47.4	26.4	0.3	25.9	-0.1	95	5
ARWG0017	44.8	25.4	0.3	29.5	-0.1	95	3
ARWG0018	72.1	27.6	0.2	0.1	-0.1	99	9
ARWG0019	57.2	38	0.3	4.5	-0.1	96	9
ARWG0020	70.1	29.5	0.2	0.2	-0.1	101	12
ARWG0022	54.1	36.9	0.2	8.8	-0.1	98	6
ARWG0023	64.9	34.7	0.2	0.2	-0.1	105	9
ARWG0024	59.8	39.7	0.3	0.2	-0.1	102	11
ARWG0025	48.3	35.8	0.3	15.6	-0.1	105	4
ARWG0026	58.2	41.4	0.3	0.1	-0.1	101	7
ARWG0027	61	38.6	0.3	0.1	-0.1	95	7
ARWG0028	62.9	36.7	0.3	0.1	-0.1	93	6
ARWG0030	57.5	32	0.5	10	-0.1	93	6
ARWG0031	47.7	31.1	0.5	20.7	0	97	4
ARWG0032	65.9	33.5	0.3	0.3	-0.1	94	5
ARWG0033	63.9	30.3	0.3	5.5	-0.1	92	3
ARWG0034	69.1	30.5	0.3	0.1	-0.1	97	3
ARWG0035	56.2	33.9	0.9	9	-0.8	102	7
ARWG0036	62.5	34.7	2.7	0.1	-0.1	102	7
ARWG0037	38.5	26.3	7	28.2	0	91	1
ARWG0038	64.7	34.9	0.3	0.1	-0.1	91	12
ARWG0039	62.9	32.3	0.2	4.6	0	113	11
ARWG0040	55.5	38.1	0.2	6.2	0	119	11
ARWG0041	60.1	31.4	0.4	8.1	0	108	4
ARWG0042	64.3	33.8	0.2	1.7	-0.1	106	3
ARWG0043	60.9	38.6	0.3	0.2	-0.2	112	7
ARWG0044	59.9	39.7	0.3	0.1	0	111	10
ARWG0045	52.5	28.4	3.2	15.9	-0.1	105	5
ARWG0046	53.4	36.1	0.4	10.1	-2.3	92	4

## Data Collected Arecibo GCCS June 2018

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ARWG0047	61.3	38.2	0.3	0.2	-0.1	98	10
ARWG0048	63.2	36.4	0.2	0.2	-0.1	98	11
ARWG0049	61.4	38.1	0.4	0.1	-0.1	99	8
ARWG0050	57.6	42.1	0.2	0.1	0	118	9
ARWG0051	59.6	40.1	0.1	0.2	0	115	1
ARWG0052	56.5	43.1	0.2	0.2	0	118	13
ARWG0053	56.9	42.6	0.3	0.2	-0.2	116	11
ARWG0054	56.8	42.9	0.2	0.1	-0.1	124	13
ARWG0055	60.7	36.4	0.3	2.6	-0.2	102	11
ARWG0056	28.4	28.6	0.7	42.3	-0.5	106	1
ARWG0057	21.3	13	10.6	55.1	0	90	4
ARWG0059	59.6	39.9	0.3	0.2	-0.1	93	11
ARWG0060	57.1	42.6	0.1	0.2	2.8	123	16
ARWG0061	56.4	43.2	0.2	0.2	-0.1	116	7
ARWG0062	57	42.6	0.2	0.2	0.4	120	23
ARWG0063	56.1	43.5	0.2	0.2	-0.1	124	10
ARWG0064	55.3	38.8	0.9	5	-1	106	6
ARWG0069	60.8	38.7	0.3	0.2	0.1	112	10
ARWG0070	58.4	41	0.5	0.1	-0.8	115	9
ARWG0071	55.5	43.8	0.5	0.2	-0.7	113	14
ARWG0072	55.3	42.7	0.9	1.1	-0.4	110	9
ARWG0077	59.8	39.6	0.4	0.2	-0.5	101	11
ARWG0078	57.7	41.8	0.3	0.2	-0.1	112	12
ARWG0079	55.6	43.3	0.8	0.3	-0.5	100	30
ARWG0080	59.3	39.5	0.3	0.9	-0.7	104	8
ARWG0081	59.6	39.1	1.1	0.2	-1.2	93	9
ARWG0082	58.5	40.6	0.8	0.1	-0.5	102	9
ARWG0083	59.1	40.5	0.3	0.1	-0.2	106	9
ARWG0084	57.3	38.3	1.5	2.9	-0.1	100	7
ARWG0085	58.6	41	0.3	0.1	-0.2	107	12

# Data Collected Arecibo GCCS July 2018

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Device ID	CH4 %	CO2 %	O2 %	Balance %	Static Press. inches H2O	Gas	
						Temp. DegF	Flow SCFM
AFLR0001	60.1	37.8	1	1.1	0	104	21
ARWG0005	62.9	32.5	0.3	4.3	-0.2	92	5
ARWG0006	66.5	32.6	0.7	0.2	-0.4	94	8
ARWG0007	67	32.6	0.3	0.1	-0.1	91	6
ARWG0008	62	34.4	0.3	3.3	0	93	5
ARWG0009	43.7	23.5	5	27.8	-0.1	90	2
ARWG0010	69.5	29.6	0.6	0.3	0	92	6
ARWG0011	74.8	24.9	0.2	0.1	0	95	7
ARWG0012	72.8	26.8	0.2	0.2	-0.1	93	9
ARWG0013	48.5	31.3	0.5	19.7	-0.1	93	5
ARWG0014	58.6	40.9	0.4	0.1	-0.1	92	11
ARWG0015	59.1	40.3	0.4	0.2	-0.1	90	10
ARWG0016	59.1	34.8	0.3	5.8	-0.1	94	7
ARWG0017	71.4	25.7	0.4	2.5	-0.1	93	7
ARWG0018	68	31.5	0.3	0.2	-0.1	102	10
ARWG0019	30.9	33.6	0.5	35	-0.1	100	4
ARWG0020	46.8	32.3	0.4	20.5	0	101	3
ARWG0021	65.6	33.9	0.3	0.2	-0.1	99	8
ARWG0022	50.1	36.2	0.5	13.2	-0.1	99	4
ARWG0023	47.1	34.2	0.3	18.4	-0.1	105	2
ARWG0024	49	34.9	0.9	15.2	-0.1	102	11
ARWG0025	61.5	38.1	0.3	0.1	-0.1	105	7
ARWG0026	57.2	38.7	0.9	3.2	-0.2	101	8
ARWG0027	27.8	29	0.3	42.9	-0.1	98	1
ARWG0028	49.6	32.6	0.3	17.5	-0.1	90	5
ARWG0029	63.1	34.7	0.5	1.7	-0.1	92	8
ARWG0030	63.9	35.1	0.9	0.1	-0.2	88	8
ARWG0031	62.2	37.1	0.5	0.2	-0.1	93	7
ARWG0032	26	29.2	0.5	44.3	0	92	2
ARWG0033	6.2	18.9	2.3	72.6	0	89	1
ARWG0034	25.5	24	0.3	50.2	0	96	1
ARWG0035	35.9	29.1	0.6	34.4	-0.1	97	4
ARWG0036	63.4	36	0.5	0.1	-0.4	91	10
ARWG0037	59.4	40.2	0.3	0.1	-0.1	91	12
ARWG0038	62.5	35.4	1.3	0.8	-0.6	91	9
ARWG0039	65.8	33.6	0.5	0.1	-0.1	112	14
ARWG0040	54	40.1	0.7	5.2	-0.1	113	10
ARWG0041	67.9	31.7	0.3	0.1	-0.1	110	8
ARWG0042	64.7	34.8	0.4	0.1	-0.6	110	8
ARWG0043	61.4	37.7	0.8	0.1	-0.6	111	9

# Data Collected Arecibo GCCS July 2018

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ARWG0044	59.7	39.7	0.4	0.2	-0.3	109	5
ARWG0045	64.8	34.8	0.3	0.1	0	104	13
ARWG0046	39.1	30.6	0.3	30	-0.9	95	1
ARWG0047	60.3	39.2	0.4	0.1	-0.3	94	11
ARWG0048	61	38.3	0.6	0.1	-0.6	94	11
ARWG0049	59.2	39.6	0.5	0.7	-0.6	96	8
ARWG0050	54.2	37.4	2.4	6	-0.2	115	9
ARWG0051	59.2	40.2	0.4	0.2	-0.5	117	9
ARWG0052	56.2	43.1	0.5	0.2	-0.5	115	12
ARWG0053	56.5	42	0.8	0.7	-0.7	115	12
ARWG0054	56.8	42.5	0.6	0.1	-0.5	120	14
ARWG0055	53.9	34.2	0.9	11	-0.5	102	8
ARWG0057	25.7	18.4	7.5	48.4	0	90	4
ARWG0059	41.3	29.4	5.5	23.8	-0.6	91	2
ARWG0060	56.9	42.7	0.3	0.1	0.2	124	16
ARWG0064	57.2	39.4	0.8	2.6	-1.9	107	4
ARWG0065	58	41.3	0.6	0.1	-0.6	98	<>>
ARWG0066	57.9	40.9	1.1	0.1	-1.8	102	12
ARWG0067	0	0	18.9	81.1	0	87	1
ARWG0068	38.5	30.6	5	25.9	-0.1	114	8
ARWG0069	55.2	39.5	0.6	4.7	-0.9	105	13
ARWG0072	53.6	41.7	1.2	3.5	-0.2	107	7
ARWG0073	58.5	41.1	0.3	0.1	-0.5	103	12
ARWG0074	60.1	39.3	0.4	0.2	-1.7	98	15
ARWG0076	60.2	38.8	0.8	0.2	-3.6	101	12
ARWG0077	58.6	40.5	0.8	0.1	-0.7	105	11
ARWG0078	55.1	40.5	1.3	3.1	-0.5	106	9
ARWG0079	53.6	42.6	0.7	3.1	-0.5	102	12
ARWG0080	47.5	35.7	0.6	16.2	-0.6	104	4
ARWG0081	59.3	39.4	0.7	0.6	-1	93	7
ARWG0082	56.9	39.9	0.8	2.4	-1.1	99	5
ARWG0083	59.1	38	1	1.9	-0.5	108	12
ARWG0084	58.9	40.7	0.3	0.1	-0.1	103	9
ARWG0085	58	39.7	1	1.3	-0.3	106	11

# Data Collected Arecibo GCCS August 2018

Device ID	CH4	CO2	O2	Balance	Adj. Static inches H2O	Adj. Gas Temp DegF	Adj. Flow SCFM
GEM™2NAV;	%	%	%	%			
ARWG0001	60.3	23.7	0.5	15.5	-0.1	89	5
ARWG0002	68.3	31.3	0.3	0.1	-0.1	91	10
ARWG0003	68.3	31.3	0.2	0.2	-0.1	92	9
ARWG0004	63.3	36.3	0.2	0.2	-0.1	96	9
ARWG0005	45.5	27.7	3.6	23.2	-0.1	91	1
ARWG0006	53.3	31.1	0.9	14.7	-0.4	93	4
ARWG0007	37.2	29.9	0.7	32.2	-0.1	94	2
ARWG0008	25.1	27.6	0.7	46.6	-0.1	90	2
ARWG0009	23	15.8	9.7	51.5	-0.3	95	4
ARWG0010	62.1	27.1	0.9	9.9	-0.3	94	6
ARWG0011	44.6	26.8	0.6	28	-0.1	95	1
ARWG0012	21.6	27.9	0.4	50.1	-0.1	93	1
ARWG0013	68.2	28	0.3	3.5	-0.1	96	5
ARWG0014	24.5	27.2	0.3	48	-0.1	94	2
ARWG0015	30.9	27.3	0.7	41.1	-0.1	94	2
ARWG0016	22.5	26.4	0.6	50.5	0	91	3
ARWG0017	21.5	27.5	0.7	50.3	0	96	1
ARWG0018	69.7	29.8	0.4	0.1	-0.1	102	10
ARWG0019	59.2	40.3	0.3	0.2	-0.1	100	8
ARWG0020	69.6	29.9	0.3	0.2	-0.1	102	8
ARWG0021	65.9	33.6	0.4	0.1	-0.1	100	7
ARWG0022	47.2	35.2	0.4	17.2	-0.1	100	5
ARWG0023	63.5	36	0.3	0.2	-0.1	104	9
ARWG0024	62.8	36.7	0.3	0.2	-0.1	102	8
ARWG0025	61	38.6	0.2	0.2	-0.1	105	8
ARWG0026	59.4	40.1	0.4	0.1	-0.1	103	8
ARWG0027	62.2	37.3	0.3	0.2	-0.1	99	9
ARWG0028	63.5	36.1	0.2	0.2	-0.1	96	5
ARWG0029	64.5	34.7	0.7	0.1	-0.1	96	4
ARWG0030	65.7	33.9	0.3	0.1	-0.1	93	5
ARWG0031	65.6	34	0.3	0.1	-0.2	99	6
ARWG0032	67	31.1	0.5	1.4	-0.1	95	3
ARWG0033	51.1	26.9	0.3	21.7	0	99	2
ARWG0034	66.6	28	0.5	4.9	-0.1	99	3
ARWG0035	61.2	38	0.6	0.2	-0.1	80	7
ARWG0036	62.4	36.1	1.3	0.2	-2.2	85	11
ARWG0037	15	9.6	15.2	60.2	-0.5	84	1
ARWG0038	44.9	24.3	6.3	24.5	-1.1	93	4
ARWG0039	59.3	39.8	0.5	0.4	-0.4	104	30
ARWG0041	65.7	32.9	0.6	0.8	-0.1	111	8
ARWG0042	50.2	33.3	0.8	15.7	-0.7	109	2
ARWG0043	56.9	36.2	1	5.9	-0.7	109	7
ARWG0044	60.2	39	0.7	0.1	-0.7	109	12
ARWG0045	63.1	33.8	0.3	2.8	-0.3	104	9
ARWG0046	61.5	38	0.3	0.2	-0.3	89	7

# Data Collected Arecibo GCCS August 2018

Device ID	CH4	CO2	O2	Balance	Adj. Static inches H2O	Adj. Gas Temp DegF	Adj. Flow SCFM
GEM™2NAV;	%	%	%	%	inches H2O	DegF	SCFM
ARWG0047	60.8	37.1	1.5	0.6	-1.4	90	11
ARWG0048	53.2	31.2	3.3	12.3	-1.8	92	7
ARWG0049	61.4	37.9	0.6	0.1	-2.4	92	8
ARWG0050	50.8	38.2	2.7	8.3	-0.9	108	7
ARWG0055	61.6	38	0.3	0.1	-0.1	98	9
ARWG0056	60.2	39.4	0.2	0.2	-0.3	98	6
ARWG0057	11.1	7.9	13.4	67.6	-0.1	85	1
ARWG0059	55.8	37	1.7	5.5	-2.4	98	6
ARWG0060	56.9	42.7	0.2	0.2	-0.1	124	24
ARWG0065	55.8	39.6	1.6	3	-0.5	105	10
ARWG0066	56.4	43.1	0.3	0.2	-0.6	108	11
ARWG0067	3	11.2	14	71.8	0	100	1
ARWG0068	56.6	42.9	0.3	0.2	-0.3	117	11
ARWG0069	58.1	41.4	0.3	0.2	-0.9	114	12
ARWG0073	58.2	41.4	0.3	0.1	-0.3	107	13
ARWG0074	59	40.6	0.3	0.1	-1.2	107	4
ARWG0075	56.1	43.5	0.3	0.1	-0.4	96	10
ARWG0076	59.9	39.3	0.7	0.1	-2	104	5
ARWG0077	57.6	41.9	0.4	0.1	-0.6	108	9
ARWG0078	56.9	42.7	0.2	0.2	-0.1	118	12
ARWG0079	55.8	43.7	0.4	0.1	-0.2	103	11
ARWG0080	60.2	39.3	0.3	0.2	-0.3	104	6
ARWG0083	58.9	40.6	0.4	0.1	-0.5	110	12
ARWG0084	58.4	39.7	0.7	1.2	-0.2	108	9
ARWG0085	58.3	41.2	0.3	0.2	-0.2	105	9

# Data Collected Arecibo GCCS September 2018

Device ID	CH4	CO2	O2	Balance	Static Press.	Gas Temp.	Flow
GEM™2NAV;	%	%	%	%	inches H2O	DegF	SCFM
ARWG0001	67.7	23.1	0.3	8.9	-0.1	92	4
ARWG0002	65.7	33.8	0.4	0.1	-0.1	92	12
ARWG0003	60.3	30.2	1.7	7.8	-0.1	94	6
ARWG0004	58.5	32.3	2.3	6.9	-0.1	99	4
ARWG0005	65.3	34.2	0.4	0.1	-0.1	94	5
ARWG0006	67	32.3	0.6	0.1	-0.2	94	6
ARWG0007	60.9	31.8	0.8	6.5	-0.1	94	6
ARWG0008	50.4	29.1	1.2	19.3	0	94	3
ARWG0009	28.6	16.4	8.4	46.6	-2.3	88	103
ARWG0010	74.6	24.9	0.4	0.1	-0.1	94	6
ARWG0011	76.9	22.4	0.5	0.2	-0.1	94	9
ARWG0018	65.3	31.4	1	2.3	-0.2	100	10
ARWG0019	50.2	36.6	0.4	12.8	-0.1	99	3
ARWG0020	55.8	30.5	0.7	13	0	101	2
ARWG0021	57.5	41.8	0.5	0.2	-0.1	93	12
ARWG0022	57.8	41.7	0.3	0.2	-0.1	95	8
ARWG0023	65.9	33.5	0.4	0.2	-0.1	101	16
ARWG0024	59.3	35.7	1.7	3.3	-0.1	99	8
ARWG0025	60.2	39.3	0.3	0.2	0	104	7
ARWG0026	59.4	39.7	0.7	0.2	-0.2	100	9
ARWG0027	58.5	37.4	0.6	3.5	-0.1	94	9
ARWG0028	62.4	37.1	0.3	0.2	-0.1	86	3
ARWG0029	54.9	31.1	2.1	11.9	-0.1	93	2
ARWG0030	63.8	32.7	1.1	2.4	-0.1	93	4
ARWG0031	64.5	33.3	0.9	1.3	-0.1	97	4
ARWG0032	65.6	32.8	0.3	1.3	0	97	4
ARWG0033	55.3	27.6	0.5	16.6	-0.1	98	2
ARWG0034	55.8	24.6	2	17.6	-0.1	98	6
ARWG0035	61.6	37.6	0.6	0.2	-0.2	90	8
ARWG0036	62.6	34.1	1.2	2.1	-2.3	90	5
ARWG0037	59.7	39.9	0.3	0.1	-0.2	85	5
ARWG0038	64.3	35	0.5	0.2	-0.4	93	10
ARWG0039	59.7	32.8	1.1	6.4	-0.6	110	12
ARWG0040	48.5	38.3	0.9	12.3	-0.1	109	6
ARWG0041	55.7	29.1	2.5	12.7	-0.1	101	3
ARWG0042	61.8	33	0.5	4.7	-0.2	110	8
ARWG0046	61.9	37.3	0.6	0.2	-0.7	96	8
ARWG0047	44.9	28.9	4.9	21.3	-0.7	94	<>>
ARWG0048	64.1	35.5	0.2	0.2	-0.7	107	12
ARWG0049	56.3	34.4	2.1	7.2	-2.2	95	8
ARWG0050	53.5	39.2	1.9	5.4	-0.6	109	6
ARWG0056	60.8	38.8	0.3	0.1	0.4	105	5
ARWG0057	20.2	15.4	7.5	56.9	0	95	5
ARWG0059	45	30.4	5.2	19.4	-1.3	93	4
ARWG0060	54.4	39.1	1.5	5	0	123	21

# Data Collected Arecibo GCCS September 2018

Device ID	CH4	CO2	O2	Balance	Static Press.	Gas Temp.	Flow
GEM™2NAV;	%	%	%	%	inches H2O	DegF	SCFM
ARWG0065	58.6	40.9	0.3	0.2	-0.6	105	10
ARWG0066	38.6	28.8	6	26.6	-0.1	107	2
ARWG0067	2.9	10.9	13.9	72.3	0	94	2
ARWG0068	57.2	41.3	0.6	0.9	-0.3	111	16
ARWG0069	59.2	40.4	0.3	0.1	-0.5	101	13
ARWG0070	57.8	41.9	0.2	0.1	0.1	120	19
ARWG0071	52	40	1.6	6.4	-0.7	111	12
ARWG0072	53.4	40.1	1.5	5	-0.1	109	6
ARWG0073	57.3	39.5	0.9	2.3	-0.1	105	12
ARWG0074	53.6	35.8	2.2	8.4	-1	100	5
ARWG0075	54.4	41.3	1	3.3	0	91	8
ARWG0076	53.4	35.4	2.4	8.8	-1.7	104	4
ARWG0077	52.4	37.6	2.3	7.7	-0.5	103	6
ARWG0078	53.1	39.3	1.9	5.7	-0.5	101	5
ARWG0079	49.2	40.7	1.2	8.9	-0.3	104	7
ARWG0080	59.8	39.6	0.4	0.2	-0.3	103	6
ARWG0081	58.5	40.8	0.5	0.2	-0.3	93	20
ARWG0082	58	41.5	0.3	0.2	-0.3	98	12
ARWG0082	58	41.5	0.3	0.2	0	96	32
ARWG0083	58.5	37.7	1.4	2.4	-0.3	109	12
ARWG0084	57.9	38.9	1.2	2	-0.2	105	10
ARWG0085	53.3	37.3	2	7.4	-0.2	107	7

# Data Collected Arecibo GCCS October 2018

Device ID	CH4	CO2	O2	Balance	Static Press	Gas Temp	Flow
GEM™5000;	%	%	%	%	inches H2O	DegF	SCFM
ARWG0001	59	31.4	0.4	9.2	-0.33	92.8	7.6
ARWG0002	58.4	31	0.9	9.7	-0.24	94.1	4.3
ARWG0003	29.9	26	3.5	40.6	-0.19	88.2	1
ARWG0004	56.2	33.5	0.3	10	-0.47	98.8	4.9
ARWG0005	42.3	31.7	0.2	25.8	-0.45	93.6	0.9
ARWG0006	61.3	31.2	0.4	7.1	-0.36	98.1	4.5
ARWG0007	49.2	30.3	0.5	20	-0.23	96.5	1.8
ARWG0008	36.8	26.2	1.3	35.7	-0.11	89.6	1.5
ARWG0009	31.9	19	7.4	41.7	-0.76	90	5.8
ARWG0010	66	25.6	0.3	8.1	-0.95	92.8	2.8
ARWG0011	56.6	28.5	0.3	14.6	-0.48	96.8	5.6
ARWG0018	63.5	32.8	0.5	3.2	-0.48	100.4	7.2
ARWG0019	36.7	32.3	0.4	30.6	-0.01	99.6	5.2
ARWG0020	64.2	31.5	0.2	4.1	-0.01	99.7	6.1
ARWG0021	41.5	33.2	0.3	25	-0.03	100.4	5.9
ARWG0022	39.5	32.3	0.4	27.8	-0.1	98.8	3.5
ARWG0023	46.3	32	0.7	21	-0.09	102.5	3.4
ARWG0024	59.7	37.3	0.2	2.8	-0.01	101.7	3.8
ARWG0025	50.5	36.7	0.2	12.6	-0.27	105.4	5
ARWG0026	54.8	38.6	0.9	5.7	-0.57	101	6
ARWG0027	61.4	36.7	0.3	1.6	-0.01	99.4	3.3
ARWG0028	57.5	34.6	0.8	7.1	-0.13	95.4	4.4
ARWG0029	62.6	33.7	0.3	3.4	-0.26	95.6	1.1
ARWG0030	65.1	33.3	0.5	1.1	-0.3	95	3.2
ARWG0031	65.2	34.8	0	0	-0.29	95.7	17.2
ARWG0032	60.5	34.5	0.2	4.8	-0.02	96.7	6.6
ARWG0033	30.6	25.2	0	44.2	-0.01	99.7	8.8
ARWG0034	58.9	27.1	0.2	13.8	-0.02	99	4.8
ARWG0035	59.9	38	0	2.1	-0.8	94.8	23.3
ARWG0036	63.4	36.1	0.5	0	-5.16	90	2.8
ARWG0037	16.4	11.3	14	58.3	-0.6	95.9	4.1
ARWG0038	46.5	26.2	5.2	22.1	-3.45	91	5.9
ARWG0039	60.1	33.3	0.4	6.2	-1.36	94	26
ARWG0040	51	39.3	0.6	9.1	-0.79	92	6.9
ARWG0041	58.7	31.6	0.4	9.3	-0.69	96	2
ARWG0042	53.2	31.8	1	14	-4.25	120.4	2
ARWG0046	61.1	38.1	0.6	0.2	-1.56	98.5	2
ARWG0047	61.3	38.7	0	0	-0.8	96.3	19.2
ARWG0048	55.5	32.5	2.4	9.6	-3.72	94	77.2
ARWG0049	61.1	37.6	0.1	1.2	-4.13	89.5	22.3
ARWG0050	49.9	37.8	2	10.3	-4.7	98.8	27.5
ARWG0056	59.8	39.1	0.3	0.8	0.37	105.4	1
ARWG0060	44.8	33.9	4.1	17.2	-2.48	101.4	5.6
ARWG0067	3.2	14.9	12.8	69.1	-0.21	90	0
ARWG0068	54.5	41.3	0.9	3.3	-1.26	91	7.4

# Data Collected Arecibo GCCS October 2018

Device ID	CH4	CO2	O2	Balance	Static Press inches H2O	Gas Temp DegF	Flow SCFM
GEM™5000;	%	%	%	%	inches H2O	DegF	SCFM
ARWG0069	46.2	33.2	4.1	16.5	-1.99	91	12.2
ARWG0070	52.9	39.7	1.6	5.8	-2.36	92	24.1
ARWG0071	53.8	43	0.8	2.4	-3.4	93	6
ARWG0072	57.7	42.2	0.1	0	0.1	998	10.2
ARWG0073	54.7	44.1	0.3	0.9	-0.86	106.9	14.1
ARWG0074	57.3	39.5	0.6	2.6	-2.82	99.8	43.3
ARWG0075	19.4	15.1	12.6	52.9	0.29	96.2	2
ARWG0076	59	39.9	0	1.1	-2.31	105.4	84.1
ARWG0077	52.7	39.4	1.3	6.6	-0.87	105.8	85
ARWG0078	55.9	42.6	0.2	1.3	-1.81	103.6	37.1
ARWG0080	55.8	38.5	0.2	5.5	-0.57	105.7	4.6
ARWG0081	56.6	39.6	0.7	3.1	-0.36	95.3	5.4
ARWG0082	55.4	40.8	0.7	3.1	-0.35	100.7	26.6
ARWG0083	59.1	39.9	0	1	-0.44	107.5	50.4
ARWG0083	56.1	37	1.2	5.7	-0.79	111.1	9.3
ARWG0084	53.2	38.1	1.6	7.1	-1.44	100	6.1
ARWG0085	58.4	41.6	0	0	-0.34	109.1	23.4

# Data Collected Arecibo GCCS November 2018

Device ID	CH4	CO2	O2	Balance	Adj. Static	Adj. Gas Temp	Adj. Flow
GEM™5000	%	%	%	%	inches H2O	DegF	SCFM
ARWG0001	51.8	19.7	2.2	26.3	-0.21	90	3.1
ARWG0002	48.6	29.6	1.7	20.1	-0.1	91	7.1
ARWG0003	62	25.8	1	11.2	-0.1	91	10.2
ARWG0004	61.8	33.9	0.1	4.2	-0.03	92	10.4
ARWG0005	56.4	32.3	0.1	11.2	-0.14	92	3.1
ARWG0006	68.2	31.8	0	0	-0.65	92	11.4
ARWG0007	60.7	30.7	0.1	8.5	-0.08	91	3.6
ARWG0008	27.8	26.2	0.1	45.9	-0.03	90	1.1
ARWG0010	74.2	25.3	0.2	0.3	-0.16	92.4	7
ARWG0011	71.6	24.8	0.1	3.5	-0.01	92.6	32.6
ARWG0015	64.1	28.7	1.2	6	-0.08	96.2	3.5
ARWG0016	55.7	24.4	0.4	19.5	0.02	95.1	4.1
ARWG0017	68.7	22.9	0.3	8.1	-0.02	99.7	8.9
ARWG0018	63	32.2	0.4	4.4	-0.51	102.9	9.7
ARWG0019	32.7	31.5	0.4	35.4	-0.02	98.1	3.8
ARWG0020	48.9	31.6	0.3	19.2	-0.01	99.4	3.2
ARWG0021	47.2	33.7	0.3	18.8	-0.01	100.4	6.3
ARWG0022	38.6	32.3	0.3	28.8	0	99.7	3.1
ARWG0023	50.1	32.9	0.3	16.7	-0.06	103.1	2.1
ARWG0024	58.9	36.3	0.3	4.5	-0.04	102.2	5.4
ARWG0025	59.8	38.3	0.3	1.6	-0.09	104.3	6.6
ARWG0026	52.8	38.2	0.7	8.3	-0.28	100.8	4.6
ARWG0027	40.4	32.8	0.4	26.4	-0.01	97.2	3.8
ARWG0028	63.4	36.1	0.4	0.1	-0.08	102.8	2.9
ARWG0029	59.3	33.5	0.4	6.8	-0.3	95.1	4.6
ARWG0030	65.6	34.1	0.4	0	-0.14	95.6	3.1
ARWG0031	64.6	34.2	0.3	0.9	-0.17	97.9	4.8
ARWG0032	60.1	34.4	0.3	5.2	-0.02	98.5	6.5
ARWG0033	10.9	21.3	1.4	66.4	-0.07	102.3	6.7
ARWG0034	31.7	24.9	0.4	43	-0.02	98.3	2
ARWG0035	59.2	37	0.8	3	-0.68	97.1	3
ARWG0036	62.6	36.6	0.8	0	-5.9	91	4.6
ARWG0037	60.9	38.7	0.4	0	-0.32	105.6	7.2
ARWG0038	64.5	34.9	0.5	0.1	-5.79	88.5	2.7
ARWG0039	49.9	32.5	0.8	16.8	-1.14	112.3	13.8
ARWG0040	48.3	38.2	0.7	12.8	-0.76	110.2	7
ARWG0041	37.5	28.3	0.4	33.8	-0.64	102.3	2.1
ARWG0042	32	29.3	0.3	38.4	-0.77	110.9	1.4
ARWG0045	66.5	33.2	0.3	0	-0.01	91.4	5
ARWG0046	61.2	38	0.8	0	-3.1	100.8	5
ARWG0047	61.2	38.5	0.3	0	-3.76	98.3	8.1
ARWG0048	62.9	35.8	0.7	0.6	-6.06	93.9	6.2
ARWG0049	61.6	38	0.4	0	-5.19	90.1	7.3
ARWG0050	57.3	42.4	0.3	0	-5.98	117.9	24.7
ARWG0055	63.5	36.2	0.4	0	-0.14	96.2	12.2

# Data Collected Arecibo GCCS November 2018

Device ID	CH4	CO2	O2	Balance	Adj. Static	Adj. Gas Temp	Adj. Flow
	%	%	%	%	inches H2O	DegF	SCFM
GEM™5000							
ARWG0057	19.7	17.4	6.2	56.7	0.59	91.9	2.4
ARWG0058	48.7	36.3	3.3	11.7	-4.3	91.2	7.6
ARWG0059	59.9	39.8	0.4	0	-6.1	92.3	2.8
ARWG0064	62.3	37.3	0.4	0	-1.12	101.8	4.9
ARWG0065	57.3	41.7	0.9	0.1	-4.02	106.2	10.6
ARWG0066	56.8	42.6	0.6	0	-3.59	106.7	7.2
ARWG0067	4.3	19.4	10.4	65.9	0.15	89.9	3.1
ARWG0068	56.7	42.9	0.4	0	-2.24	116.1	2.7
ARWG0069	58.1	41.6	0.3	0	-1.04	112.2	25.7
ARWG0070	57.2	42.4	0.5	0	-2.21	122.1	22.2
ARWG0071	54.2	42.7	0.9	2.2	-3.41	115.1	10.2
ARWG0072	57.6	42.2	0.2	0	-0.5	105.8	8.1
ARWG0073	57.4	41	0.6	1	-0.93	106.7	14
ARWG0074	58.9	40.7	0.4	0	-1.95	106	3.4
ARWG0075	55.5	44.2	0.3	0	-3.55	91.5	2.1
ARWG0076	59.5	40.1	0.4	0	-1.31	112.4	6.1
ARWG0077	57.1	42.7	0.3	0	-1.69	111.3	3.1
ARWG0078	57.2	42.5	0.3	0	-1.39	120.3	10.6
ARWG0079	54.1	42.8	0.4	2.7	-0.2	106.2	12.8
ARWG0080	56.6	39	0.4	4	-0.46	103.8	4.5
ARWG0081	58.5	41.2	0.2	0.1	-0.92	94	3.4
ARWG0082	57.5	42.2	0.4	0	-0.23	101.6	27.3
ARWG0083	59.3	40.4	0.3	0	-0.32	111.3	8.3
ARWG0084	58.2	40.5	0.3	1	-0.67	109.7	5.2
ARWG0085	58.2	41.4	0.4	0	-0.21	110.3	5.9

# Data Collected Arecibo GCCS December 2018

Device ID	CH4	CO2	O2	Balance	Adj. Static P	Adj. Gas Temp	Adj. Flow
GEM™5000; G5	%	%	%	%	inches H2O	DegF	SCFM
ARWG0002	59.2	34.3	0.5	6	-0.03	94.4	2.7
ARWG0003	72.1	27.6	0.4	0	-0.05	95.4	4.9
ARWG0004	67.3	32.4	0.3	0	-0.02	98.7	5.5
ARWG0005	62.6	30.5	0.2	6.7	-0.03	92.2	22.6
ARWG0006	68.4	31.3	0.3	0	-0.03	98.4	4.8
ARWG0007	66.6	32.1	0.3	1	-0.04	93.4	3.3
ARWG0008	34.9	24.6	0.3	40.2	0	91.4	1.2
ARWG0009	31	25.6	0.3	43.1	-0.01	89.1	1.4
ARWG0010	74.3	25.4	0.3	0	-0.08	93.1	2.4
ARWG0011	76.4	23.4	0.3	0	-0.02	97.1	5.8
ARWG0015	50.1	29.2	0.3	20.4	-0.01	97.1	2.7
ARWG0016	52.3	24.9	0.3	22.5	-0.01	92.9	2.4
ARWG0017	49.4	27.2	0.3	23.1	-0.01	95.9	2.2
ARWG0018	73	26.8	0.3	0	-0.01	98.8	5.4
ARWG0019	60.1	36.3	0.4	3.2	-0.02	100.4	2.2
ARWG0020	70.9	28.7	0.3	0.1	-0.01	102.8	3.5
ARWG0021	57.3	33	0.3	9.4	-0.01	103.3	3.2
ARWG0022	37.7	29.8	0.3	32.2	-0.01	104.5	0.3
ARWG0023	68.4	31.3	0.3	0	-0.03	100.6	3.7
ARWG0024	64.4	35.5	0.1	0	-0.02	100.6	3.2
ARWG0025	61.1	38.6	0.3	0	-0.02	100.7	27.5
ARWG0026	58.9	40.8	0.3	0	-0.01	93.5	3.1
ARWG0027	61.4	37.3	0.4	0.9	-0.01	98.7	2
ARWG0028	63.2	36.5	0.3	0	-0.08	91.7	1.4
ARWG0029	61	34.7	0.3	4	-0.01	95.3	1.4
ARWG0030	66.1	33.5	0.3	0.1	-0.02	96.4	1.6
ARWG0031	60.2	33.3	0.3	6.2	-0.01	100.7	3.9
ARWG0032	30.4	26.8	0.3	42.5	-0.01	99	1.3
ARWG0033	17.7	21.6	0.4	60.3	-0.02	96.4	0.9
ARWG0034	58.8	28.5	0.2	12.5	-0.01	98.4	3.2
ARWG0035	61.1	37.4	0.5	1	-1.5	100.8	3.6
ARWG0036	61.3	38.1	0.6	0	-8.73	96.3	22.8
ARWG0037	57.9	38.4	1.4	2.3	-8.85	91.6	3.4
ARWG0038	63.6	35.9	0.6	0	-8.74	92.2	0
ARWG0039	41.5	28.3	1.7	28.5	-0.18	114.4	22.7
ARWG0041	62.4	32.1	0.3	5.2	-0.05	108.3	0
ARWG0042	60.6	33	0.3	6.1	-0.92	118.5	0
ARWG0045	64.9	33	0.3	1.8	-0.23	107.2	6.3
ARWG0046	44.4	36.2	0.6	18.8	-1.55	95.4	6
ARWG0047	60.1	39.5	0.4	0	-8.06	94.6	6.9
ARWG0048	61.4	35.7	1.2	1.7	-8.48	97.9	3.3
ARWG0049	61	38.6	0.4	0	-8.28	92.2	5
ARWG0052	57.5	42.2	0.3	0	0.51	109.4	3.5
ARWG0053	57.1	42.6	0.3	0	-1.13	125.6	3.8
ARWG0054	56.8	42.7	0.5	0	-5.31	99.4	17.8
Device ID	CH4	CO2	O2	Balance	Adj. Static P	Adj. Gas Temp	Adj. Flow

# Data Collected Arecibo GCCS December 2018

GEM™5000; G5	%	%	%	%	inches H2O	DegF	SCFM
ARWG0055	58.2	34.9	0.5	6.4	-0.55	104.9	3.6
ARWG0056	25.8	32.8	0.7	40.7	-0.48	101.9	6.2
ARWG0057	19.9	18.9	4.8	56.4	0.43	94.7	2.1
ARWG0058	49.9	37.5	2.8	9.8	-1.7	97.6	7.4
ARWG0060	58	41.5	0.5	0	-2.91	98.2	6.5
ARWG0062	57.5	42.2	0.3	0	-0.79	122	2.1
ARWG0063	56.6	43.2	0.2	0	-2.16	124.8	2.2
ARWG0064	59	38.6	1	1.4	-2.54	108.2	6.8
ARWG0065	56.9	41.9	1.1	0.1	-5.82	106.2	11.2
ARWG0066	56	41	1	2	-1.39	105.6	10.9
ARWG0067	5.3	23.3	7.9	63.5	2.19	95.4	2.3
ARWG0068	57.1	42.4	0.5	0	-2.57	115.3	16
ARWG0070	57	42.5	0.5	0	-3.07	122.1	26
ARWG0071	55.1	43.1	0.9	0.9	-4.46	113.9	10
ARWG0072	55.6	42.7	0.8	0.9	-2.57	112.6	7.1
ARWG0073	57.9	41.2	0.8	0.1	-3.04	104.7	14.5
ARWG0074	58.2	41.2	0.6	0	-6.14	103.1	11.3
ARWG0075	15.4	11.7	15.1	57.8	-0.01	91.5	2.3
ARWG0076	59.7	39.6	0.7	0	-4.7	109.1	4.4
ARWG0077	56.7	41.7	0.9	0.7	-4.39	109.7	5.8
ARWG0078	57.1	41.9	1	0	-5.88	113.5	18.8
ARWG0079	53	42.1	0.5	4.4	-0.66	108	23.8
ARWG0080	57.5	38.8	0.4	3.3	-0.42	105.9	6.3
ARWG0081	58.6	40.7	0.7	0	-2.2	97.5	5.1
ARWG0082	57.3	42.3	0.5	0	-1.02	104.9	5.7
ARWG0083	59.4	40.3	0.4	0	-0.86	112.2	13.2
ARWG0084	56.2	39.3	0.5	4	-1.13	111.2	2
ARWG0085	57	40.8	0.4	1.8	-0.35	111.5	4.7